Its habit and foliage abundantly distinguish it from the species in the last article. From the Juniperus Sabina, or common Savin of Europe, its botanical distinction is by no means easy. The general appearance and arrangement of the leaves in the full grown specimens of both is precisely the same, except that in the Red cedar the leaves are shorter and more compactly imbricated, having an ovate form, while in the Savin they are somewhat longer and more remote, and may be called lanceolate. In the Red cedar they are also more universally and pungently acute. The characters of the latter species, which I have seen given by different botanists, are almost all defective, in ascribing to it ternate leaves, which, I believe, never exist except in imperfect or distorted specimens. Its more true character is as follows. *Trunk arboreous, upper leaves imbricated in four rows, ovate, pungently acute.* It is by no means certain that on mature examination all the present species of Juniper will be found sufficiently distinct to be kept separate.

The Red cedar, when full grown, is a middling sized tree, though, on account of the value of its wood, it is seldom suffered to reach its full dimensions. The trunk is straight and decreases rapidly

from the ground, giving off many horizontal branches. Its surface is generally unequal, and disfigured by knots, and the crevices and protuberances they occasion. The small twigs are covered with minute, densely imbricated leaves, which continue to increase in size as the branch grows, till they are broken up and confounded with the rough bark. These leaves are fleshy, ovate, concave, rigidly acute, marked with a small depressed gland on the middle of their outer side, growing in pairs, which are united at base to each other, and to the pairs above and below them. They do not alter their situation, but continue opposite till they are obliterated by age. A singular variety sometimes appears in the young shoots, especially those which issue from the base of the trees. This consists in an elongation of the leaves to five or six times their usual length, while they become spreading, acerose, considerably remote from each other, and irregular in their insertion, being either opposite or ternate. These shoots are so dissimilar to the parent tree that they have repeatedly been mistaken for individuals of a different species.—The barren flowers grow in small oblong aments, formed by peltate scales with the anthers concealed within them. The fertile flowers have a proper perianth, which